

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P1221271

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K_L18_Medium_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221271
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K_L18_Medium_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 1218 LIGHT ENGINE, TRANSLUCENT WHITE SHADE, MEDIUM DISTRIBUTION.
LIGHT LEVEL 1 - 18,000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

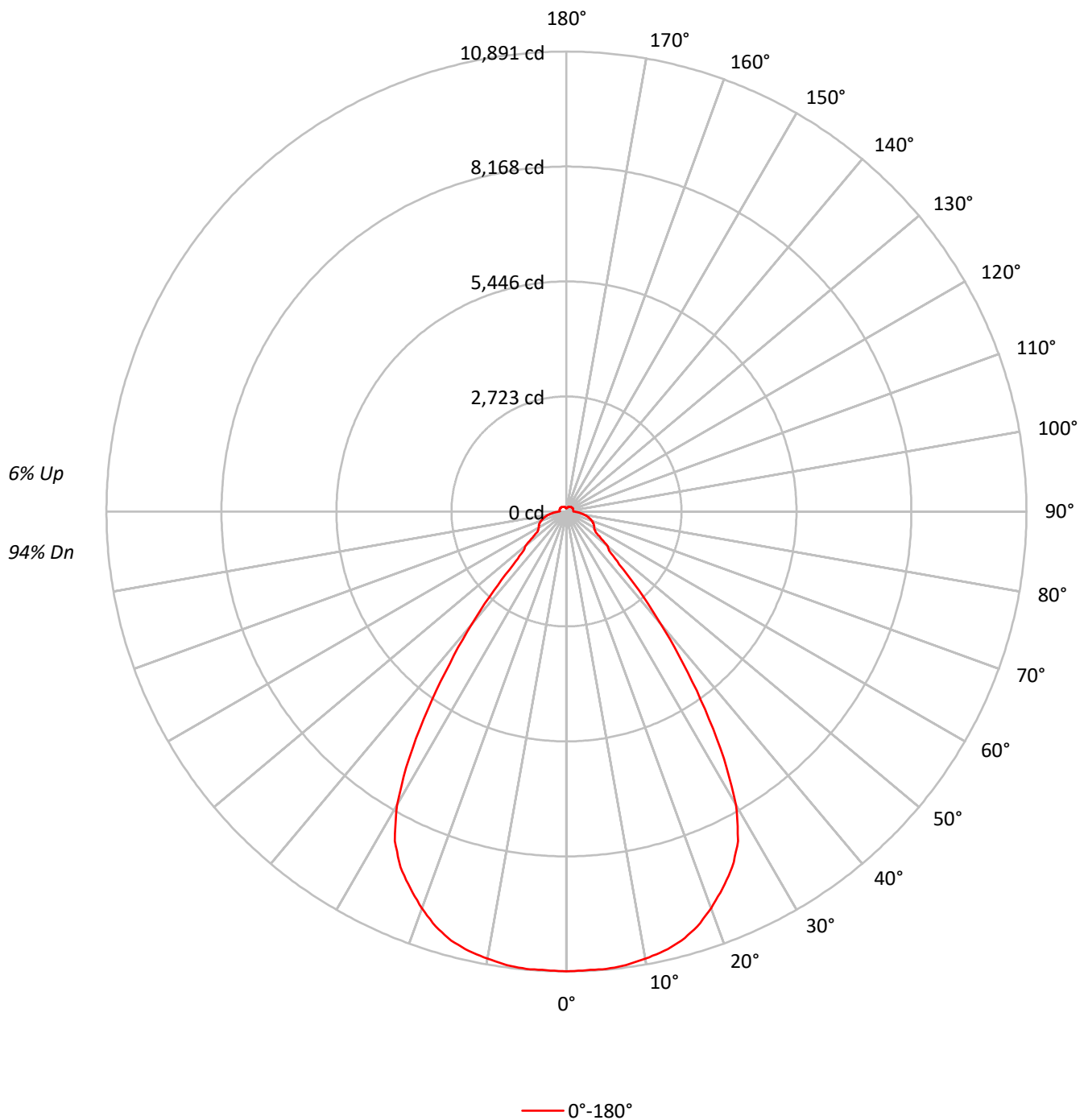
Lumens per Lamp: N/A
Luminaire Lumens: 16649.6 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.03
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.67')
CIE Type: Direct

Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1221271

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K_L18_Medium_120V)

Luminous Intensity Polar Plot



CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K_L18_Medium_120V)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94		
1	110	106	102	99	106	103	100	97	98	95	93	93	91	89	89	87	86	83		
2	102	96	90	86	99	93	89	84	89	85	82	85	82	79	82	79	77	74		
3	96	87	81	76	93	85	79	75	82	77	73	78	74	71	75	72	69	67		
4	89	80	73	68	87	78	72	67	75	70	65	72	68	64	70	66	63	61		
5	84	73	66	61	82	72	65	60	69	64	59	67	62	58	65	61	57	55		
6	79	68	61	55	77	67	60	55	64	58	54	62	57	53	60	56	52	51		
7	74	63	56	51	72	62	55	50	60	54	50	58	53	49	56	52	48	46		
8	70	58	51	47	68	58	51	46	56	50	46	54	49	45	53	48	45	43		
9	66	55	48	43	64	54	47	43	52	46	42	51	46	42	50	45	41	40		
10	62	51	44	40	61	50	44	40	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	59537
5°	57001
10°	54540
15°	52090
20°	48682
25°	44846
30°	38699
35°	27747
40°	17130
45°	8911
50°	6591
55°	4539
60°	4302
65°	4271
70°	4104
75°	3795
80°	3280
85°	2521

MAXIMUM LUMINANCE 45°-90°:

Luminance: 8911 cd/sqm

TEST NUMBER: P1221271

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K_L18_Medium_120V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1034.1	6.2
10°-20°	2956.4	17.8
20°-30°	4229.6	25.4
30°-40°	3547.0	21.3
40°-50°	1533.9	9.2
50°-60°	813.2	4.9
60°-70°	698.9	4.2
70°-80°	565.0	3.4
80°-90°	315.1	1.9
90°-100°	179.3	1.1
100°-110°	176.7	1.1
110°-120°	164.7	1.0
120°-130°	142.8	0.9
130°-140°	115.4	0.7
140°-150°	85.4	0.5
150°-160°	55.9	0.3
160°-170°	28.4	0.2
170°-180°	7.8	0.0
0°-30°	8220.1	49.4
0°-40°	11767.1	70.7
0°-60°	14114.3	84.8
0°-90°	15693.3	94.3
90°-120°	520.7	3.1
90°-150°	864.2	5.2
90°-180°	956.0	5.7
0°-180°	16649.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10891	
5°	10874	###
15°	10526	2956
25°	9293	4230
35°	5718	3547
45°	1770	1534
55°	841	813
65°	710	699
75°	539	565
85°	286	262
90°	173	99
95°	162	134
105°	167	177
115°	166	165
125°	159	143
135°	148	115
145°	136	85
155°	120	56
165°	99	28
175°	81	8
180°	81	

TEST NUMBER: P1221271

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K_L18_Medium_120V)

CANDELA DISTRIBUTION (FULL):

0°	
0°	10890.6
2.5°	10873.1
5°	10874.2
7.5°	10835.6
10°	10753.8
12.5°	10661.4
15°	10525.7
17.5°	10303.6
20°	10000.7
22.5°	9661.6
25°	9293.2
27.5°	8800.9
30°	8027.9
32.5°	6936.9
35°	5718.3
37.5°	4538.4
40°	3480.1
42.5°	2535.3
45°	1770.5
47.5°	1365.9
50°	1270.0
52.5°	1003.3
55°	840.8
57.5°	785.8
60°	758.9
62.5°	736.7
65°	709.8
67.5°	675.9
70°	635.0
72.5°	589.4
75°	539.1
77.5°	483.0
80°	421.0
82.5°	356.7
85°	286.5
87.5°	216.3
90°	173.1
92.5°	160.2
95°	162.5
97.5°	164.9
100°	166.1
102.5°	167.2
105°	167.2
107.5°	167.2
110°	167.2

TEST NUMBER: P1221271

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K_L18_Medium_120V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	167.2
115°	166.1
117.5°	164.9
120°	163.7
122.5°	161.4
125°	159.0
127.5°	156.7
130°	154.4
132.5°	152.0
135°	148.5
137.5°	146.2
140°	142.7
142.5°	139.2
145°	135.7
147.5°	132.1
150°	128.6
152.5°	125.1
155°	120.4
157.5°	115.8
160°	109.9
162.5°	105.2
165°	99.4
167.5°	92.4
170°	86.5
172.5°	80.7
175°	80.7
177.5°	80.7
180°	80.7

TEST NUMBER: P1221271

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K_L18_Medium_120V)

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.78	13.94	13.24	14.37	14.83	12.78	13.94	13.24	14.37	14.83
	3H	15.14	16.17	15.62	16.63	17.13	15.14	16.17	15.62	16.63	17.13
	4H	16.11	17.08	16.61	17.55	18.07	16.11	17.08	16.61	17.55	18.07
	6H	16.90	17.80	17.42	18.28	18.82	16.90	17.80	17.42	18.28	18.82
	8H	17.20	18.05	17.73	18.55	19.10	17.20	18.05	17.73	18.55	19.10
	12H	17.43	18.24	17.96	18.73	19.30	17.43	18.24	17.96	18.73	19.30
4H	2H	13.44	14.41	13.95	14.88	15.41	13.44	14.41	13.95	14.88	15.41
	3H	15.98	16.79	16.49	17.30	17.85	15.98	16.79	16.49	17.30	17.85
	4H	17.07	17.81	17.61	18.33	18.91	17.07	17.81	17.61	18.33	18.91
	6H	18.00	18.63	18.56	19.19	19.78	18.00	18.63	18.56	19.19	19.78
	8H	18.35	18.95	18.91	19.50	20.10	18.35	18.95	18.91	19.50	20.10
	12H	18.64	19.16	19.22	19.75	20.35	18.64	19.16	19.22	19.75	20.35
8H	4H	17.41	18.00	17.97	18.55	19.15	17.41	18.00	17.97	18.55	19.15
	6H	18.47	18.96	19.07	19.56	20.17	18.47	18.96	19.07	19.56	20.17
	8H	18.93	19.36	19.54	19.97	20.60	18.93	19.36	19.54	19.97	20.60
	12H	19.32	19.70	19.93	20.30	20.99	19.32	19.70	19.93	20.30	20.99
12H	4H	17.44	17.97	18.02	18.55	19.16	17.44	17.97	18.02	18.55	19.16
	6H	18.55	18.99	19.16	19.60	20.22	18.55	18.99	19.16	19.60	20.22
	8H	19.06	19.45	19.67	20.04	20.74	19.06	19.45	19.67	20.04	20.74